Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Compheresive Development of roads and drains at GKVK Layout and Narayanappa Layout in Ward no-04 Yelahanka New Town Sub Division

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means for roads, drains & similar works in ordinary** soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-143), 8km lead								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloding & Lead, 8KM	77.48							
	Total	**215.28**							
		Cum							
	RCC Drain								
	Ward 04, GKVK Layout								
	1st main		2	200.00	1.10	1.00	440.00		
	19th main		2	110.00	1.10	1.00	242.00		
	Ward 04, Narayanappa Layout								
	2nd cross		2	100.00	1.00	0.90	180.00		
	Desilt								
	Ward 04, Narayanappa								
	1st cross		2	97.00	0.60	0.35	40.74		
	4th cross		2	136.00	0.60	0.30	48.96		
	Culvert		8	6.30	1.50	0.90	68.04		
				Area					
	Rain Water Harvesting pits		8	0.31		1.80	4.46		
							1024.20	**215.28**	**220490.64**
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00		Area					
	a) 40mm Jelly	Cum	8	0.31	0.40	0.99	1901		1,885.79
	Data rate	1901.00							
	b) 20mm Jelly	Cum	8	0.31	0.40	0.99	1901		1,885.79
	Data rate	2651.00							
	c) Coarse sand.	Cum	8	0.31	0.30	0.74	2651		1,972.34
	Data rate	2651.00							
	d) Fine Sand	Cum	8	0.31	0.20	0.50	2651		1,314.90
	Data rate	1901.00							
	e) 12.5mm chips	Cum	8	0.31	0.30	0.74	1901		1,414.34

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia.** (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							
	Total	10822.32							
		Rmt							
	0.63m dia HDPE Perforated		8	1.80			14.40		
							14.40	10822.32	155841.41
4	**Providing of Geonets** for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03		Area					
		Sqm	8	0.31			2.48	71.03	176.15
5	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	Basic rate	5115.00							
	Area Weightage 6%	306.90							
	Total	5421.90							
		Cum							
	RCC Drain								
	Ward 04, GKVK Layout								
	1st main		2	200.00	1.10	0.15	66.00		
	19th main		2	110.00	1.10	0.15	36.30		
	Ward 04, Narayanappa Layout								
	2nd cross								
	Culvert		2	100.00	1.00	0.15	30.00		
			8	6.30	1.50	0.15	11.34		
							143.64	5421.90	778801.72
6	Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix concrete with OPC at 300 kgs.** With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	6670.00							
	Area Weightage 6%	400.20							
	Total	7070.20							
		Cum							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	RCC Drain								
	Raft								
	Ward 04, GKVK Layout								
	1st main		2	200.00	0.90	0.15	54.00		
	19th main		2	110.00	0.90	0.15	29.70		
	Ward 04, Narayanappa Layout								
	2nd cross		2	100.00	0.80	0.15	24.00		
	Wall								
	Ward 04, GKVK Layout								
	1st main		4	200.00	0.15	0.60	72.00		
	19th main		4	110.00	0.15	0.60	39.60		
	Ward 04, Narayanappa Layout								
	2nd cross		4	100.00	0.15	0.60	36.00		
							255.30		
	Culvert Raft		8	6.30	1.20	0.20	12.10		
	Culvert Wall		16	6.30	0.23	0.60	13.91		
							26.01		
	Wall rising								
	Ward 04, Narayanappa								
	1st cross		4	97.00	0.15	0.20	11.64		
	2nd cross		4	100.00	0.15	0.20	12.00		
	4th cross		4	136.00	0.15	0.20	16.32		
							39.96		
							321.27	**7070.20**	**2271417.70**
7	KSRRB - M2300-14: **Providing TMT steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate 69804.00								
	Area Weightage 6% 4188.24								
	Total 73992.24								
	Tn								
	RCC Drain								
	For Drain 60kg/cum			255.30	0.06		15.32		
	For Drain rising 30kg/cum			39.96	0.03		1.20		
	For Culvert 90kg/cum			26.01	0.09		2.34		
							18.86	**73992.24**	**1395299.49**
8	Providing and Fixing **pre cast covering Slab 100mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate 2337.00								
	Sqm								
	RCC Drain								
	Ward 04, GKVK Layout								

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	1st main		2	200.00	0.90		360.00		
	19th main		2	110.00	0.90		198.00		
	Ward 04, Narayanappa Layout								
	2nd cross		2	100.00	0.75		150.00		
	missing slabs								
	Ward 04, Narayanappa								
	1st cross	0.25	2	97.00	0.90		43.65		
	4th cross	0.25	2	136.00	0.90		61.20		
							812.85	2337.00	1899630.45
9	Providing and fixing **RCC precast cover slab of 250mm thick** for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate	5418.00							
		Sqm							
	Ward 04, GKVK Layout								
	Culvert		8	6.30	1.20		60.48		
							60.48	5418.00	327680.64
10	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= (I No-19.14,P No-143,KPWD SR 2018-19)								
	Basic rate	41.00							
	Area Weightage 6%	2.46							
	8km Lead	20.48							
	Total	63.94							
		Cum							
	Pipeline cut Portion								
	Ward 04, GKVK Layout								
	1st main		2	212.00	0.90	0.10	38.16		
	2nd main		2	196.00	0.90	0.10	35.28		
	3rd main		2	68.70	0.90	0.10	12.37		
	5th main		2	53.00	0.90	0.10	9.54		
	1st cross		2	31.00	0.90	0.10	5.58		
							100.93	63.94	6,453.21
11	KSRRB 300-46. **Scarifying by mechanical** means stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.(P.No-146,I No-19.52)								
	Basic rate	39.00							
	Area Weightage 6%	2.34							
	Total	41.34							
		Sqm							
	Ward 04, GKVK Layout								
	Scarifying Roads								
	4th main Road		1	122.00	5.20		634.40		
							634.40	41.34	26,226.10

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
12	**Construction of granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	Basic rate	1882.00							
	Area Weightage 6%	112.92							
	Total	1994.92							
		Cum							
	Pipeline cut Portion								
	Ward 04, GKVK Layout								
	1st main		2	212.00	0.90	0.15	57.24		
	2nd main		2	196.00	0.90	0.15	52.92		
	3rd main		2	68.70	0.90	0.15	18.55		
	5th main		2	53.00	0.90	0.15	14.31		
	1st cross		2	31.00	0.90	0.15	8.37		
	Ward 04, GKVK Layout								
	Scarifying Roads								
	4th main Road		2	122.00	1.00	0.15	36.60		
							187.99	**1994.92**	**375023.02**
13	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	Area Weightage 6%	113.28							
	Total	2001.28							
		Cum							
	Pipeline cut Portion								
	Ward 04, GKVK Layout								
	1st main		2	212.00	0.90	0.23	87.77		
	2nd main		2	196.00	0.90	0.23	81.14		
	3rd main		2	68.70	0.90	0.23	28.44		
	5th main		2	53.00	0.90	0.23	21.94		
	1st cross		2	31.00	0.90	0.23	12.83		
	Ward 04, GKVK Layout								
	Scarifying Roads								
	4th main Road		1	122.00	5.20	0.23	145.91		
							378.04	**2001.28**	**756567.49**
14	KSRRB M500-6. Providing and **applying primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6), issue rate dated 01-07-2020								
	Basic rate	28.00							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Area Weightage 6%	1.68							
	Total	29.68							
	Ward 04, GKVK Layout								
	1st main		2	212.00	0.90		381.60		
	2nd main		2	196.00	0.90		352.80		
	3rd main		2	68.70	0.90		123.66		
	5th main		2	53.00	0.90		95.40		
	1st cross		2	31.00	0.90		55.80		
	Ward 04, GKVK Layout								
	Scarifying Roads								
	4th main Road		1	122.00	5.20		634.40		
							1643.66	**29.68**	**48,783.83**
15	KSRRB 500-2. **Cleaning the existing black topped** surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications.(P.No-158,I No-21.2), issue rate dated 01-07-2020								
	Basic rate	5.00							
	Area Weightage 6%	0.30							
	Total	**5.30**							
		Sqm							
	TC- PC area						2658.43		
							2658.43	**5.30**	**14,089.68**
16	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7) issue rate dated 01-07-2020								
	Basic rate	12.00							
	Area Weightage 6%	0.72							
	Total	**12.72**							
		Sqm							
	Ward 04, GKVK Layout								
	1st main		1	212.00	6.70		1420.40		
	2nd main		1	196.00	6.70		1313.20		
	3rd main		1	68.70	6.70		460.29		
	5th main		1	53.00	6.60		349.80		
	1st cross		1	31.00	4.00		124.00		
	Ward 04, GKVK Layout								
	Scarifying Roads								
	4th main Road		1	122.00	5.20		634.40		
							4302.09	**12.72**	**54,722.58**
17	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6), issue rate dated 01-07-2020								

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Basic rate	6045.00							
	Area Weightage 6%	362.70							
	Total	6407.70							
		Cum							
	Pipeline cut Portion								
	Ward 04, GKVK Layout								
	1st main		2	212.00	0.90	0.05	19.08		
	2nd main		2	196.00	0.90	0.05	17.64		
	3rd main		2	68.70	0.90	0.05	6.18		
	5th main		2	53.00	0.90	0.05	4.77		
	1st cross		2	31.00	0.90	0.05	2.79		
	Profile correction, 20%		0.2	2658.43		0.05	26.58		
	Ward 04, GKVK Layout								
	Scarifying Roads								
	4th main Road		1	122.00	5.20	0.05	31.72		
							108.77	6407.70	696948.23
18	Providing and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12), issue rate dated 01-07-2020								
	Basic rate	7111.00							
	Area Weightage 6%	426.66							
	Total	7537.66							
		Cum							
	Ward 04, GKVK Layout								
	1st main		1	212.00	6.70	0.04	56.82		
	2nd main		1	196.00	6.70	0.04	52.53		
	3rd main		1	68.70	6.70	0.04	18.41		
	5th main		1	53.00	6.60	0.04	13.99		
	1st cross		1	31.00	4.00	0.04	4.96		
	Ward 04, GKVK Layout								
	Scarifying Roads								
	4th main Road		1	122.00	5.20	0.03	19.03		
							165.74	7537.66	1249288.75
19	**KSRRB M800-13.Road Marking** with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 6%	25.74							
	Total	454.74							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
		Sqm							
	Ward 04, GKVK Layout								
	1st main		2.5	212.00	0.10		53.00		
	2nd main		2.5	196.00	0.10		49.00		
	3rd main		2.5	68.70	0.10		17.18		
	5th main		2.5	53.00	0.10		13.25		
	1st cross		2	31.00	0.10		6.20		
	Ward 04, GKVK Layout								
	Scarifying Roads								
	4th main Road		2	122.00	0.10		24.40		
							163.03	**454.74**	**74,133.99**
20	KSRRB M800-35. **Supply and Installtion of Moulded Shank Raised Pavement Markers** made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41)								
	Basic rate	337.00							
	Area Weightage 6%	20.22							
	Total	**357.22**							
		Nos							
	At 7m intervals								
	Ward 04, GKVK Layout								
	1st main		2	30.00			60.00		
	2nd main		3	28.00			84.00		
	3rd main		3	9.00			27.00		
	5th main		3	7.00			21.00		
	1st cross		2	4.00			8.00		
	Ward 04, GKVK Layout								
	Scarifying Roads								
	4th main Road		2	17.00			34.00		
							234.00	**357.22**	**83,589.48**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
21	KSRRB M600-1.Providing and **Constructing dry lean cement concrete** mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate .86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor. (I No-22.1,P No-174)								
	Basic rate	3585.00							
	Area Weightage 6%	215.10							
	Total	3800.10							
		Cum							
	Cut portion								
	Ward 04, Narayanappa Layout								
	1st cross		1	97.00	2.00	0.15	29.10		
	2nd cross		1	100.00	2.00	0.15	30.00		
	3rd cross		1	115.00	2.00	0.15	34.50		
	4th cross		1	136.00	2.00	0.15	40.80		
							134.40	3800.10	510733.44
22	**Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30** over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to(P.No-176,I No-22.6.1)								
	Basic rate	4916.00							
	Area Weightage 6%	294.96							
	Total	5210.96							
		Cum							
	Ward 04, Narayanappa								
	1st cross		1	97.00	5.00	0.15	72.75		
	2nd cross		1	100.00	4.00	0.15	60.00		
	3rd cross		1	115.00	4.70	0.15	81.08		
	4th cross		1	136.00	4.70	0.15	95.88		
							309.71	5210.96	1613860.37
								Total Construction Cost	12568231.52
								Towards GST 12%	1508187.78
								Towards Tender Premium 5%	628411.58

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
								DPR & PMC Charges 2%	295000.00
								Sub Total	14999830.88
								Miscellaneous & Rounding Off	169.12
								Total	15000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 01-07-2020 and Data Rates

Assistant Engineer
Ward 04
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements and Asphalting to Balance Main and Cross roads of DUO Marvel layout in Attur ward no-03

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-143), 8km lead								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloding & Lead, 8KM	77.48							
	Total	215.28							
		Cum							
	RCC Drain								
	Ananthapura								
	opp. Raghavendra medicals		1	260.00	1.00	1.00	260.00		
	Cross road		1	33.00	1.00	1.00	33.00		
	Raghavendra medicals		2	92.00	1.00	1.00	184.00		
			1	41.00	1.00	0.90	36.90		
			1	49.00	1.00	0.90	44.10		
				Area					
	Rain Water Harvesting pits		8	0.31		1.80	4.46		
	Culvert		4	6.00	1.50	1.10	39.60		
							602.06	215.28	129612.34
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00		Area					
	a) 40mm Jelly	Cum	8	0.31		0.40	0.99	1901	1,885.79
	Data rate	1901.00							
	b) 20mm Jelly	Cum	8	0.31		0.40	0.99	1901	1,885.79
	Data rate	2651.00							
	c) Coarse sand.	Cum	8	0.31		0.30	0.74	2651	1,972.34
	Data rate	2651.00							
	d) Fine Sand	Cum	8	0.31		0.20	0.50	2651	1,314.90
	Data rate	1901.00							
	e) 12.5mm chips	Cum	8	0.31		0.30	0.74	1901	1,414.34

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia.** (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							
	Total	10822.32							
		Rmt							
	0.63m dia HDPE Perforated		8	1.80			14.40		
							14.40	10822.32	155841.41
4	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03		Area					
		Sqm	16	0.31			4.96	71.03	352.31
5	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	Basic rate	5115.00							
	Area Weightage 6%	306.90							
	Total	5421.90							
		Cum							
	RCC Drain								
	Ananthapura								
	opp. Raghavendra medicals		1	260.00	1.00	0.15	39.00		
	Cross road		1	33.00	1.00	0.15	4.95		
	Raghavendra medicals		2	92.00	1.00	0.15	27.60		
			1	41.00	1.00	0.15	6.15		
			1	49.00	1.00	0.15	7.35		
	Culvert		4	6.00	1.50	0.15	5.40		
							90.45	5421.90	490410.86
6	Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix concrete with OPC at 300 kgs.** With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	6670.00							
	Area Weightage 6%	400.20							
	Total	7070.20							
		Cum							
	RCC Drain								
	Raft								

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Ananthapura								
	opp. Raghavendra medicals		1	260.00	0.80	0.15	31.20		
	Cross road		1	33.00	0.80	0.15	3.96		
	Raghavendra medicals		2	92.00	0.80	0.15	22.08		
			1	41.00	0.80	0.15	4.92		
			1	49.00	0.80	0.15	5.88		
	Wall								
	Ananthapura								
	opp. Raghavendra medicals		2	260.00	0.15	0.60	46.80		
	Cross road		2	33.00	0.15	0.60	5.94		
	Raghavendra medicals		4	92.00	0.15	0.60	33.12		
			2	41.00	0.15	0.60	7.38		
			2	49.00	0.15	0.60	8.82		
							170.10		
	Culvert Raft		4	6.00	1.20	0.20	5.76		
	Culvert Wall		8	6.00	0.23	0.60	6.62		
							12.38		
							182.48	**7070.20**	**1290198.38**
7	KSRRB - M2300-14: **Providing TMT steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	69804.00							
	Area Weightage 6%	4188.24							
	Total	**73992.24**							
		Tn							
	RCC Drain								
	For Drain 60kg/cum			182.48	0.06		10.95		
	For Culvert 90kg/cum			12.38	0.09		1.11		
							12.06	**73992.24**	**892612.79**
8	Providing and Fixing **pre cast covering Slab 100mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	2337.00							
		Sqm							
	RCC Drain								
	Ananthapura								
	opp. Raghavendra medicals		1	260.00	0.75		195.00		
	Cross road		1	33.00	0.75		24.75		
	Raghavendra medicals		2	92.00	0.75		138.00		
			1	41.00	0.75		30.75		
			1	49.00	0.75		36.75		
							425.25	**2337.00**	**993809.25**
9	Providing and fixing **RCC precast cover slab of 250mm thick** for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Data rate	5418.00							
		Sqm							
	Culvert		4	6.00	1.20		28.80		
							28.80	5418.00	156038.40
10	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= (I No-19.14,P No-143,KPWD SR 2018-19)								
	Basic rate	41.00							
	Area Weightage 6%	2.46							
	8km Lead	20.48							
	Total	63.94							
		Cum							
	Duo Marvel Layout								
	New Formation								
	1st A cross rd		1	65.00	4.50	0.30	87.75		
	2nd A cross rd		1	38.00	5.20	0.30	59.28		
	1st Cross rd		1	121.00	6.00	0.30	217.80		
	5th Cross rd		1	288.00	7.50	0.30	648.00		
	4th Cross rd		1	38.00	6.80	0.30	77.52		
			1	44.00	6.80	0.30	89.76		
	5th cross rd		1	101.00	7.00	0.30	212.10		
	Pipeline cut Portion								
	2nd Cross rd		2	121.00	1.00	0.20	48.40		
	Cross rd		2	140.00	0.80	0.20	44.80		
	3rd Cross rd		2	150.00	1.00	0.20	60.00		
	5th Main rd		2	299.00	0.80	0.20	95.68		
	6th cross rd		2	101.00	0.80	0.20	32.32		
	7th cross rd		2	101.00	0.80	0.20	32.32		
	8th cross rd		2	101.00	0.80	0.20	32.32		
	9th cross rd		2	101.00	0.80	0.20	32.32		
	10th cross rd		2	101.00	0.80	0.20	32.32		
	11th cross rd		2	101.00	0.80	0.20	32.32		
	12th cross rd		2	101.00	0.80	0.20	32.32		
	13th cross rd		2	101.00	0.80	0.20	32.32		
							1899.65	63.94	121463.62
11	**Construction of granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause.401 of MORTH V Revision.(I No-20.5,P No-153)								
	Basic rate	1882.00							
	Area Weightage 6%	112.92							
	Total	1994.92							
		Cum							
	Duo Marvel Layout								
	New Formation								
	1st A cross rd		1	65.00	4.50	0.15	43.88		
	2nd A cross rd		1	38.00	5.20	0.15	29.64		
	1st Cross rd		1	121.00	6.00	0.15	108.90		
	5th Cross rd		1	288.00	7.50	0.15	324.00		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	4th Cross rd		1	38.00	6.80	0.15	38.76		
			1	44.00	6.80	0.15	44.88		
	5th cross rd		1	101.00	7.00	0.15	106.05		
	Pipeline cut Portion								
	2nd Cross rd		2	121.00	1.00	0.15	36.30		
	Cross rd		2	140.00	0.80	0.15	33.60		
	3rd Cross rd		2	150.00	1.00	0.15	45.00		
	5th Main rd		2	299.00	0.80	0.15	71.76		
	6th cross rd		2	101.00	0.80	0.15	24.24		
	7th cross rd		2	101.00	0.80	0.15	24.24		
	8th cross rd		2	101.00	0.80	0.15	24.24		
	9th cross rd		2	101.00	0.80	0.15	24.24		
	10th cross rd		2	101.00	0.80	0.15	24.24		
	11th cross rd		2	101.00	0.80	0.15	24.24		
	12th cross rd		2	101.00	0.80	0.15	24.24		
	13th cross rd		2	101.00	0.80	0.15	24.24		
							1076.69	**1994.92**	**2147900.44**
12	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	Area Weightage 6%	113.28							
	Total	**2001.28**							
		Cum							
	Duo Marvel Layout								
	New Formation								
	1st A cross rd		1	65.00	4.50	0.23	67.28		
	2nd A cross rd		1	38.00	5.20	0.23	45.45		
	1st Cross rd		1	121.00	6.00	0.23	166.98		
	5th Cross rd		1	288.00	7.50	0.23	496.80		
	4th Cross rd		1	38.00	6.80	0.23	59.43		
			1	44.00	6.80	0.23	68.82		
	5th cross rd		1	101.00	7.00	0.23	162.61		
	Pipeline cut Portion								
	2nd Cross rd		2	121.00	1.00	0.23	55.66		
	Cross rd		2	140.00	0.80	0.23	51.52		
	3rd Cross rd		2	150.00	1.00	0.23	69.00		
	5th Main rd		2	299.00	0.80	0.23	110.03		
	6th cross rd		2	101.00	0.80	0.23	37.17		
	7th cross rd		2	101.00	0.80	0.23	37.17		
	8th cross rd		2	101.00	0.80	0.23	37.17		
	9th cross rd		2	101.00	0.80	0.23	37.17		
	10th cross rd		2	101.00	0.80	0.23	37.17		
	11th cross rd		2	101.00	0.80	0.23	37.17		
	12th cross rd		2	101.00	0.80	0.23	37.17		
	13th cross rd		2	101.00	0.80	0.23	37.17		
							1650.92	**2001.28**	**3303947.17**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
13	KSRRB M500-6. Providing and **applying primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6), issue rate dated 01-07-2020								
	Basic rate	28.00							
	Area Weightage 6%	1.68							
	Total	**29.68**							
	Duo Marvel Layout								
	New Formation								
	1st A cross rd		1	65.00	4.50		292.50		
	2nd A cross rd		1	38.00	5.20		197.60		
	1st Cross rd		1	121.00	6.00		726.00		
	5th Cross rd		1	288.00	7.50		2160.00		
	4th Cross rd		1	38.00	6.80		258.40		
			1	44.00	6.80		299.20		
	5th cross rd		1	101.00	7.00		707.00		
	Pipeline cut Portion								
	2nd Cross rd		2	121.00	1.00		242.00		
	Cross rd		2	140.00	0.80		224.00		
	3rd Cross rd		2	150.00	1.00		300.00		
	5th Main rd		2	299.00	0.80		478.40		
	6th cross rd		2	101.00	0.80		161.60		
	7th cross rd		2	101.00	0.80		161.60		
	8th cross rd		2	101.00	0.80		161.60		
	9th cross rd		2	101.00	0.80		161.60		
	10th cross rd		2	101.00	0.80		161.60		
	11th cross rd		2	101.00	0.80		161.60		
	12th cross rd		2	101.00	0.80		161.60		
	13th cross rd		2	101.00	0.80		161.60		
							7177.90	**29.68**	**213040.07**
14	KSRRB 500-2. **Cleaning the existing black topped** surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications.(P.No-158,I No-21.2), issue rate dated 01-07-2020								
	Basic rate	5.00							
	Area Weightage 6%	0.30							
	Total	**5.30**							
		Sqm							
	TC- PC area						5575.80		
							5575.80	**5.30**	**29,551.74**
15	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7) issue rate dated 01-07-2020								
	Basic rate	12.00							
	Area Weightage 6%	0.72							
	Total	**12.72**							
		Sqm							
	Duo Marvel Layout								
	1st A cross rd		1	65.00	4.50		292.50		
	2nd A cross rd		1	38.00	5.20		197.60		
	1st Cross rd		1	121.00	6.00		726.00		
	5th Cross rd		1	288.00	7.50		2160.00		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	4th Cross rd		1	38.00	6.80		258.40		
			1	44.00	6.80		299.20		
	5th cross rd		1	101.00	7.00		707.00		
	Overlay roads								
	2nd Cross rd		1	121.00	7.00		847.00		
	Cross rd		1	140.00	5.30		742.00		
	3rd Cross rd		1	150.00	7.00		1050.00		
	5th Main rd		1	299.00	5.10		1524.90		
	6th cross rd		1	101.00	5.00		505.00		
	7th cross rd		1	101.00	5.00		505.00		
	8th cross rd		1	101.00	5.00		505.00		
	9th cross rd		1	101.00	4.80		484.80		
	10th cross rd		1	101.00	5.00		505.00		
	11th cross rd		1	101.00	5.00		505.00		
	12th cross rd		1	101.00	4.50		454.50		
	13th cross rd		1	101.00	4.80		484.80		
							12753.70	**12.72**	**162227.06**
16	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6), issue rate dated 01-07-2020								
	Basic rate	6045.00							
	Area Weightage 6%	362.70							
	Total	**6407.70**							
		Cum							
	Duo Marvel Layout								
	New Formation								
	1st A cross rd		1	65.00	4.50	0.05	14.63		
	2nd A cross rd		1	38.00	5.20	0.05	9.88		
	1st Cross rd		1	121.00	6.00	0.05	36.30		
	5th Cross rd		1	288.00	7.50	0.05	108.00		
	4th Cross rd		1	38.00	6.80	0.05	12.92		
			1	44.00	6.80	0.05	14.96		
	5th cross rd		1	101.00	7.00	0.05	35.35		
	Pipeline cut Portion								
	2nd Cross rd		2	121.00	1.00	0.05	12.10		
	Cross rd		2	140.00	0.80	0.05	11.20		
	3rd Cross rd		2	150.00	1.00	0.05	15.00		
	5th Main rd		2	299.00	0.80	0.05	23.92		
	6th cross rd		2	101.00	0.80	0.05	8.08		
	7th cross rd		2	101.00	0.80	0.05	8.08		
	8th cross rd		2	101.00	0.80	0.05	8.08		
	9th cross rd		2	101.00	0.80	0.05	8.08		
	10th cross rd		2	101.00	0.80	0.05	8.08		
	11th cross rd		2	101.00	0.80	0.05	8.08		
	12th cross rd		2	101.00	0.80	0.05	8.08		
	13th cross rd		2	101.00	0.80	0.05	8.08		
	Profile correction, 20%		0.2	5575.80		0.05	55.76		
							414.65	6407.70	2656972.03

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
17	Providing and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12), issue rate dated 01-07-2020								
	Basic rate	7111.00							
	Area Weightage 6%	426.66							
	Total	**7537.66**							
		Cum							
	Duo Marvel Layout								
	New Formation								
	1st A cross rd		1	65.00	4.50	0.03	8.78		
	2nd A cross rd		1	38.00	5.20	0.03	5.93		
	1st Cross rd		1	121.00	6.00	0.03	21.78		
	5th Cross rd		1	288.00	7.50	0.03	64.80		
	4th Cross rd		1	38.00	6.80	0.03	7.75		
			1	44.00	6.80	0.03	8.98		
	5th cross rd		1	101.00	7.00	0.03	21.21		
	Overlay roads								
	2nd Cross rd		1	121.00	7.00	0.04	33.88		
	Cross rd		1	140.00	5.30	0.04	29.68		
	3rd Cross rd		1	150.00	7.00	0.04	42.00		
	5th Main rd		1	299.00	5.10	0.04	61.00		
	6th cross rd		1	101.00	5.00	0.04	20.20		
	7th cross rd		1	101.00	5.00	0.04	20.20		
	8th cross rd		1	101.00	5.00	0.04	20.20		
	9th cross rd		1	101.00	4.80	0.04	19.39		
	10th cross rd		1	101.00	5.00	0.04	20.20		
	11th cross rd		1	101.00	5.00	0.04	20.20		
	12th cross rd		1	101.00	4.50	0.04	18.18		
	13th cross rd		1	101.00	4.80	0.04	19.39		
							463.74	**7537.66**	**3495521.99**
18	KSRRB M800-13.**Road Marking** with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 6%	25.74							
	Total	**454.74**							
		Sqm							
	Duo Marvel Layout								
	New Formation								
	1st A cross rd		2	65.00	0.10		13.00		
	2nd A cross rd		2	38.00	0.10		7.60		
	1st Cross rd		2.5	121.00	0.10		30.25		
	5th Cross rd		2.5	288.00	0.10		72.00		
	4th Cross rd		2.5	38.00	0.10		9.50		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
			2.5	44.00	0.10		11.00		
	5th cross rd		2.5	101.00	0.10		25.25		
	Pipeline cut Portion								
	2nd Cross rd		2.5	121.00	0.10		30.25		
	Cross rd		2	140.00	0.10		28.00		
	3rd Cross rd		2.5	150.00	0.10		37.50		
	5th Main rd		2.5	299.00	0.10		74.75		
	6th cross rd		2	101.00	0.10		20.20		
	7th cross rd		2	101.00	0.10		20.20		
	8th cross rd		2	101.00	0.10		20.20		
	9th cross rd		2	101.00	0.10		20.20		
	10th cross rd		2	101.00	0.10		20.20		
	11th cross rd		2	101.00	0.10		20.20		
	12th cross rd		2	101.00	0.10		20.20		
	13th cross rd		2	101.00	0.10		20.20		
							500.70	**454.74**	**227688.32**
19	**KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers** made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41)								
	Basic rate	337.00							
	Area Weightage 6%	20.22							
	Total	**357.22**							
		Nos							
	At 7m intervals								
	Duo Marvel Layout								
	1st A cross rd		2	9.00			18.00		
	2nd A cross rd		2	5.00			10.00		
	1st Cross rd		3	17.00			51.00		
	5th Cross rd		3	40.00			120.00		
	4th Cross rd		3	5.00			15.00		
			3	6.00			18.00		
	5th cross rd		3	14.00			42.00		
	2nd Cross rd		3	17.00			51.00		
	Cross rd		2	20.00			40.00		
	3rd Cross rd		3	21.00			63.00		
	5th Main rd		3	42.00			126.00		
	6th cross rd		2	14.00			28.00		
	7th cross rd		2	14.00			28.00		
	8th cross rd		2	14.00			28.00		
	9th cross rd		2	14.00			28.00		
	10th cross rd		2	14.00			28.00		
	11th cross rd		2	14.00			28.00		
	12th cross rd		2	14.00			28.00		
	13th cross rd		2	14.00			28.00		
							778.00	**357.22**	**277917.16**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
								Total Construction Cost	16753578.49
								Towards GST 12%	2010429.42
								Towards Tender Premium 5%	837678.92
								DPR & PMC Charges 2%	398000.00
								Sub Total	19999686.83
								Miscellaneous & Rounding Off	313.17
								Total	20000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 01-07-2020 and Data Rates

Assistant Engineer
Ward 03
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements and Asphalting to roads at Chowdappa layout,Nagaraju layout,Brindhavana layout,Balaji layout,Maruthi Nagara in Attur Ward no-03

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-143), 8km lead								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloding & Lead, 8KM	77.48							
	Total	**215.28**							
		Cum							
	RCC Drain								
	Brindhavana layout								
	1st A cross rd		2	85.00	1.00	0.90	153.00		
	Cross rd		2	31.00	1.00	0.90	55.80		
	Ambhabhavani layout								
	7th cross rd		2	175.00	1.10	0.90	346.50		
				Area					
	Rain Water Harvesting pits		8	0.31		1.80	4.46		
	Culvert		1	6.00	1.50	0.90	8.10		
							567.86	**215.28**	**122249.7**
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00		Area					
	a) 40mm Jelly	Cum	8	0.31		0.40	0.99	1901	1,885.79
	Data rate	1901.00							
	b) 20mm Jelly	Cum	8	0.31		0.40	0.99	1901	1,885.79
	Data rate	2651.00							
	c) Coarse sand.	Cum	8	0.31		0.30	0.74	2651	1,972.34
	Data rate	2651.00							
	d) Fine Sand	Cum	8	0.31		0.20	0.50	2651	1,314.90
	Data rate	1901.00							
	e) 12.5mm chips	Cum	8	0.31		0.30	0.74	1901	1,414.34

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia.** (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							
	Total	10822.32							
		Rmt							
	0.63m dia HDPE Perforated		8	1.80			14.40		
							14.40	**10822.32**	**155841.41**
4	**Providing of Geonets** for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03		Area					
		Sqm	8	0.31			**2.48**	**71.03**	**176.15**
5	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	Basic rate	5115.00							
	Area Weightage 6%	306.90							
	Total	**5421.90**							
		Cum							
	RCC Drain								
	Brindhavana layout								
	1st A cross rd		2	85.00	1.00	0.15	25.50		
	Cross rd		2	31.00	1.00	0.15	9.30		
	Ambhabhavani layout								
	7th cross rd		2	175.00	1.10	0.15	57.75		
	For kerb stone								
	Ambhabhavani layout								
	7th cross rd		2	175.00	0.20	0.10	7.00		
	Culvert		1	6.00	1.50	0.15	1.35		
							100.90	**5421.90**	**547069.71**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
6	Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix concrete with OPC at 300 kgs.** With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	6670.00							
	Area Weightage 6%	400.20							
	Total	**7070.20**							
		Cum							
	RCC Drain								
	Brindhavana layout								
	Raft								
	1st A cross rd		2	85.00	0.80	0.15	20.40		
	Cross rd		2	31.00	0.80	0.15	7.44		
	Ambhabhavani layout								
	7th cross rd		2	175.00	0.90	0.15	47.25		
	Wall								
	1st A cross rd		4	85.00	0.15	0.60	30.60		
	Cross rd		4	31.00	0.15	0.60	11.16		
	Ambhabhavani layout								
	7th cross rd		4	175.00	0.15	0.60	63.00		
							179.85		
	Culvert Raft		1	6.00	1.20	0.20	1.44		
	Culvert Wall		2	6.00	0.23	0.60	1.66		
							3.10		
							182.95	**7070.20**	**1293464.81**
7	KSRRB - M2300-14: **Providing TMT steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	69804.00							
	Area Weightage 6%	4188.24							
	Total	**73992.24**							
		Tn							
	Brindhavana layout								
	RCC Drain								
	For Drain 60kg/cum			179.85	0.06		10.79		
	For Culvert 90kg/cum			3.10	0.09		0.28		
							11.07	**73992.24**	**819067.46**
8	Providing and Fixing **pre cast covering Slab 100mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	2337.00							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
		Sqm							
	RCC Drain								
	Brindhavana layout								
	1st A cross rd		2	85.00	0.75		127.50		
	Cross rd		2	31.00	0.75		46.50		
	Ambhabhavani layout								
	7th cross rd		2	175.00	0.90		315.00		
							489.00	2337.00	1142793.0
9	Providing and fixing **RCC precast cover slab of 250mm thick** for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate	5418.00							
		Sqm							
	Culvert		1	6.00	1.20		7.20		
							7.20	5418.00	39,009.6
10	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
		Nos							
	Ambhabhavani layout								
	7th cross rd		2	175.00			350.00		
							350.00		
							778.00	432.48	336469.44
11	**Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	**84.80**							
		Sqm							
	Ambhabhavani layout								
	7th cross rd		2	175.00		0.40	140.00		
							140.00	84.80	11,872.00
12	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= (I No-19.14,P No-143,KPWD SR 2018-19)								
	Basic rate	41.00							
	Area Weightage 6%	2.46							
	8km Lead	20.48							
	Total	63.94							
		Cum							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	New formation								
	Chowdappa layout								
	1st Main rd		1	195.00	5.60	0.30	327.60		
	Nagaraju layout								
	Main Road		1	139.00	5.80	0.30	241.86		
	13th Cross rd		1	28.00	5.30	0.30	44.52		
	14th Cross rd		1	28.00	5.30	0.30	44.52		
	15th Cross rd		1	25.00	4.30	0.30	32.25		
	1st Main rd		1	298.00	6.00	0.30	536.40		
	Maruthi Nagara								
	1st Main rd		1	149.00	6.50	0.30	290.55		
	2nd Cross rd		1	57.00	5.90	0.30	100.89		
	Balaji layout								
	10th cross rd		1	139.00	5.80	0.30	241.86		
	2nd Cross rd(Left side)		1	48.00	4.00	0.30	57.60		
	2nd Cross rd(Right side)		1	23.00	5.00	0.30	34.50		
	3rd Cross rd(Left side)		1	11.00	5.00	0.30	16.50		
	3rd Cross rd(Right side)		1	36.00	5.20	0.30	56.16		
	4th cross rd		1	28.00	5.30	0.30	44.52		
	5th cross rd		1	25.00	4.30	0.30	32.25		
	Brindhavana layout								
	1st Main rd		1	150.00	4.80	0.30	216.00		
			1	103.00	4.00	0.30	123.60		
	2nd Main rd		1	179.00	6.00	0.30	322.20		
	1st Cross rd		1	25.00	5.30	0.30	39.75		
	1stA Cross rd		1	85.00	5.00	0.30	127.50		
	Cross rd-1		1	31.00	4.60	0.30	42.78		
	Cross rd-2		1	151.00	5.80	0.30	262.74		
							3236.55	**63.94**	**206945.01**
13	KSRRB 300-46. **Scarifying by mechanical means** stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.(P.No-146,I No-19.52)								
	Basic rate	39.00							
	Area Weightage 6%	2.34							
	Total	**41.34**							
		Sqm							
	Scarifying Roads								
	Maruthi Nagara								
	1st Cross rd		1	110.00	6.20		682.00		
	3rd Cross rd		1	169.00	6.00		1014.00		
	4th Cross rd		1	123.00	5.70		701.10		
	Ambhabhavani layout								
	Main Road		1	310.00	6.00		1860.00		
							4257.10	**41.34**	**175988.51**
14	KSRRB 300-58. **Compaction of original ground** with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (I No-19.64,P No-147)								
	Basic rate	6.00							
	Area Weightage 6%	0.36							
	Total	6.36							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
		Sqm							
	New formation								
	Chowdappa layout								
	1st Main rd		1	195.00	5.60		1092.00		
	Nagaraju layout								
	Main Road		1	139.00	5.80		806.20		
	13th Cross rd		1	28.00	5.30		148.40		
	14th Cross rd		1	28.00	5.30		148.40		
	15th Cross rd		1	25.00	4.30		107.50		
	1st Main rd		1	298.00	6.00		1788.00		
	Maruthi Nagara								
	1st Main rd		1	149.00	6.50		968.50		
	2nd Cross rd		1	57.00	5.90		336.30		
	Balaji layout								
	10th cross rd		1	139.00	5.80		806.20		
	2nd Cross rd(Left side)		1	48.00	4.00		192.00		
	2nd Cross rd(Right side)		1	23.00	5.00		115.00		
	3rd Cross rd(Left side)		1	11.00	5.00		55.00		
	3rd Cross rd(Right side)		1	36.00	5.20		187.20		
	4th cross rd		1	28.00	5.30		148.40		
	5th cross rd		1	25.00	4.30		107.50		
	Brindhavana layout								
	1st Main rd		1	150.00	4.80		720.00		
			1	103.00	4.00		412.00		
	2nd Main rd		1	179.00	6.00		1074.00		
	1st Cross rd		1	25.00	5.30		132.50		
	1stA Cross rd		1	85.00	5.00		425.00		
	Cross rd-1		1	31.00	4.60		142.60		
	Cross rd-2		1	151.00	5.80		875.80		
							10788.50	**6.36**	**68,614.8**
15	**Construction of granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	Basic rate	1882.00							
	Area Weightage 6%	112.92							
	Total	**1994.92**							
		Cum							
	New formation								
	Chowdappa layout								
	1st Main rd		1	195.00	5.60	0.15	163.80		
	Nagaraju layout								
	Main Road		1	139.00	5.80	0.15	120.93		
	13th Cross rd		1	28.00	5.30	0.15	22.26		
	14th Cross rd		1	28.00	5.30	0.15	22.26		
	15th Cross rd		1	25.00	4.30	0.15	16.13		
	1st Main rd		1	298.00	6.00	0.15	268.20		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Maruthi Nagara								
	1st Main rd		1	149.00	6.50	0.15	145.28		
	2nd Cross rd		1	57.00	5.90	0.15	50.45		
	Balaji layout								
	10th cross rd		1	139.00	5.80	0.15	120.93		
	2nd Cross rd(Left side)		1	48.00	4.00	0.15	28.80		
	2nd Cross rd(Right side)		1	23.00	5.00	0.15	17.25		
	3rd Cross rd(Left side)		1	11.00	5.00	0.15	8.25		
	3rd Cross rd(Right side)		1	36.00	5.20	0.15	28.08		
	4th cross rd		1	28.00	5.30	0.15	22.26		
	5th cross rd		1	25.00	4.30	0.15	16.13		
	Brindhavana layout								
	1st Main rd		1	150.00	4.80	0.15	108.00		
			1	103.00	4.00	0.15	61.80		
	2nd Main rd		1	179.00	6.00	0.15	161.10		
	1st Cross rd		1	25.00	5.30	0.15	19.88		
	1stA Cross rd		1	85.00	5.00	0.15	63.75		
	Cross rd-1		1	31.00	4.60	0.15	21.39		
	Cross rd-2		1	151.00	5.80	0.15	131.37		
	Scarifying Roads								
	Maruthi Nagara								
	1st Cross rd		2	110.00	1.00	0.15	33.00		
	3rd Cross rd		2	169.00	1.00	0.15	50.70		
	4th Cross rd		2	123.00	1.00	0.15	36.90		
	Ambhabhavani layout								
	Main Road		2	310.00	1.10	0.15	102.30		
							1841.18	**1994.92**	**3672996.83**
16	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	Area Weightage 6%	113.28							
	Total	**2001.28**							
		Cum							
	New formation								
	Chowdappa layout								
	1st Main rd		1	195.00	5.60	0.23	251.16		
	Nagaraju layout								
	Main Road		1	139.00	5.80	0.23	185.43		
	13th Cross rd		1	28.00	5.30	0.23	34.13		
	14th Cross rd		1	28.00	5.30	0.23	34.13		
	15th Cross rd		1	25.00	4.30	0.23	24.73		
	1st Main rd		1	298.00	6.00	0.23	411.24		
	Maruthi Nagara								
	1st Main rd		1	149.00	6.50	0.23	222.76		
	2nd Cross rd		1	57.00	5.90	0.23	77.35		
	Balaji layout								

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	10th cross rd		1	139.00	5.80	0.23	185.43		
	2nd Cross rd(Left side)		1	48.00	4.00	0.23	44.16		
	2nd Cross rd(Right side)		1	23.00	5.00	0.23	26.45		
	3rd Cross rd(Left side)		1	11.00	5.00	0.23	12.65		
	3rd Cross rd(Right side)		1	36.00	5.20	0.23	43.06		
	4th cross rd		1	28.00	5.30	0.23	34.13		
	5th cross rd		1	25.00	4.30	0.23	24.73		
	Brindhavana layout								
	1st Main rd		1	150.00	4.80	0.23	165.60		
			1	103.00	4.00	0.23	94.76		
	2nd Main rd		1	179.00	6.00	0.23	247.02		
	1st Cross rd		1	25.00	5.30	0.23	30.48		
	1stA Cross rd		1	85.00	5.00	0.23	97.75		
	Cross rd-1		1	31.00	4.60	0.23	32.80		
	Cross rd-2		1	151.00	5.80	0.23	201.43		
	Scarifying Roads								
	Maruthi Nagara								
	1st Cross rd		1	110.00	6.20	0.23	156.86		
	3rd Cross rd		1	169.00	6.00	0.23	233.22		
	4th Cross rd		1	123.00	5.70	0.23	161.25		
	Ambhabhavani layout								
	Main Road		1	310.00	6.00	0.23	427.80		
							3460.49	**2001.28**	**6925405.42**
17	KSRRB M500-6. Providing and **applying primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6), issue rate dated 01-07-2020								
	Basic rate	28.00							
	Area Weightage 6%	1.68							
	Total	29.68							
		Sqm							
	New formation								
	Chowdappa layout								
	1st Main rd		1	195.00	5.60		1092.00		
	Nagaraju layout								
	Main Road		1	139.00	5.80		806.20		
	13th Cross rd		1	28.00	5.30		148.40		
	14th Cross rd		1	28.00	5.30		148.40		
	15th Cross rd		1	25.00	4.30		107.50		
	1st Main rd		1	298.00	6.00		1788.00		
	Maruthi Nagara								
	1st Main rd		1	149.00	6.50		968.50		
	2nd Cross rd		1	57.00	5.90		336.30		
	Balaji layout								
	10th cross rd		1	139.00	5.80		806.20		
	2nd Cross rd(Left side)		1	48.00	4.00		192.00		
	2nd Cross rd(Right side)		1	23.00	5.00		115.00		
	3rd Cross rd(Left side)		1	11.00	5.00		55.00		
	3rd Cross rd(Right side)		1	36.00	5.20		187.20		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	4th cross rd		1	28.00	5.30		148.40		
	5th cross rd		1	25.00	4.30		107.50		
	Brindhavana layout								
	1st Main rd		1	150.00	4.80		720.00		
			1	103.00	4.00		412.00		
	2nd Main rd		1	179.00	6.00		1074.00		
	1st Cross rd		1	25.00	5.30		132.50		
	1stA Cross rd		1	85.00	5.00		425.00		
	Cross rd-1		1	31.00	4.60		142.60		
	Cross rd-2		1	151.00	5.80		875.80		
	Scarifying Roads								
	Maruthi Nagara								
	1st Cross rd		1	110.00	6.20		682.00		
	3rd Cross rd		1	169.00	6.00		1014.00		
	4th Cross rd		1	123.00	5.70		701.10		
	Ambhabhavani layout								
	Main Road		1	310.00	6.00		1860.00		
							15045.60	**29.68**	**446553.41**
18	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7) issue rate dated 01-07-2020								
	Basic rate	12.00							
	Area Weightage 6%	0.72							
	Total	**12.72**							
		Sqm							
	New formation								
	Chowdappa layout								
	1st Main rd		1	195.00	5.60		1092.00		
	Nagaraju layout								
	Main Road		1	139.00	5.80		806.20		
	13th Cross rd		1	28.00	5.30		148.40		
	14th Cross rd		1	28.00	5.30		148.40		
	15th Cross rd		1	25.00	4.30		107.50		
	1st Main rd		1	298.00	6.00		1788.00		
	Maruthi Nagara								
	1st Main rd		1	149.00	6.50		968.50		
	2nd Cross rd		1	57.00	5.90		336.30		
	Balaji layout								
	10th cross rd		1	139.00	5.80		806.20		
	2nd Cross rd(Left side)		1	48.00	4.00		192.00		
	2nd Cross rd(Right side)		1	23.00	5.00		115.00		
	3rd Cross rd(Left side)		1	11.00	5.00		55.00		
	3rd Cross rd(Right side)		1	36.00	5.20		187.20		
	4th cross rd		1	28.00	5.30		148.40		
	5th cross rd		1	25.00	4.30		107.50		
	Brindhavana layout								
	1st Main rd		1	150.00	4.80		720.00		
			1	103.00	4.00		412.00		
	2nd Main rd		1	179.00	6.00		1074.00		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	1st Cross rd		1	25.00	5.30		132.50		
	1stA Cross rd		1	85.00	5.00		425.00		
	Cross rd-1		1	31.00	4.60		142.60		
	Cross rd-2		1	151.00	5.80		875.80		
	Scarifying Roads								
	Maruthi Nagara								
	1st Cross rd		1	110.00	6.20		682.00		
	3rd Cross rd		1	169.00	6.00		1014.00		
	4th Cross rd		1	123.00	5.70		701.10		
	Ambhabhavani layout								
	Main Road		1	310.00	6.00		1860.00		
							15045.60	**12.72**	**191380.03**
19	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6), issue rate dated 01-07-2020								
	Basic rate	6045.00							
	Area Weightage 6%	362.70							
	Total	**6407.70**							
		Cum							
	New formation								
	Chowdappa layout								
	1st Main rd		1	195.00	5.60	0.05	54.60		
	Nagaraju layout								
	Main Road		1	139.00	5.80	0.05	40.31		
	13th Cross rd		1	28.00	5.30	0.05	7.42		
	14th Cross rd		1	28.00	5.30	0.05	7.42		
	15th Cross rd		1	25.00	4.30	0.05	5.38		
	1st Main rd		1	298.00	6.00	0.05	89.40		
	Maruthi Nagara								
	1st Main rd		1	149.00	6.50	0.05	48.43		
	2nd Cross rd		1	57.00	5.90	0.05	16.82		
	Balaji layout								
	10th cross rd		1	139.00	5.80	0.05	40.31		
	2nd Cross rd(Left side)		1	48.00	4.00	0.05	9.60		
	2nd Cross rd(Right side)		1	23.00	5.00	0.05	5.75		
	3rd Cross rd(Left side)		1	11.00	5.00	0.05	2.75		
	3rd Cross rd(Right side)		1	36.00	5.20	0.05	9.36		
	4th cross rd		1	28.00	5.30	0.05	7.42		
	5th cross rd		1	25.00	4.30	0.05	5.38		
	Brindhavana layout								
	1st Main rd		1	150.00	4.80	0.05	36.00		
			1	103.00	4.00	0.05	20.60		
	2nd Main rd		1	179.00	6.00	0.05	53.70		
	1st Cross rd		1	25.00	5.30	0.05	6.63		
	1stA Cross rd		1	85.00	5.00	0.05	21.25		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Cross rd-1		1	31.00	4.60	0.05	7.13		
	Cross rd-2		1	151.00	5.80	0.05	43.79		
	Scarifying Roads								
	Maruthi Nagara								
	1st Cross rd		1	110.00	6.20	0.05	34.10		
	3rd Cross rd		1	169.00	6.00	0.05	50.70		
	4th Cross rd		1	123.00	5.70	0.05	35.06		
	Ambhabhavani layout								
	Main Road		1	310.00	6.00	0.05	93.00		
							752.28	**6407.70**	**4820384.56**
20	Providing and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12), issue rate dated 01-07-2020								
	Basic rate	7111.00							
	Area Weightage 6%	426.66							
	Total	**7537.66**							
		Cum							
	New formation								
	Chowdappa layout								
	1st Main rd		1	195.00	5.60	0.03	32.76		
	Nagaraju layout								
	Main Road		1	139.00	5.80	0.03	24.19		
	13th Cross rd		1	28.00	5.30	0.03	4.45		
	14th Cross rd		1	28.00	5.30	0.03	4.45		
	15th Cross rd		1	25.00	4.30	0.03	3.23		
	1st Main rd		1	298.00	6.00	0.03	53.64		
	Maruthi Nagara								
	1st Main rd		1	149.00	6.50	0.04	38.74		
	2nd Cross rd		1	57.00	5.90	0.03	10.09		
	Balaji layout								
	10th cross rd		1	139.00	5.80	0.03	24.19		
	2nd Cross rd(Left side)		1	48.00	4.00	0.03	5.76		
	2nd Cross rd(Right side)		1	23.00	5.00	0.03	3.45		
	3rd Cross rd(Left side)		1	11.00	5.00	0.03	1.65		
	3rd Cross rd(Right side)		1	36.00	5.20	0.03	5.62		
	4th cross rd		1	28.00	5.30	0.03	4.45		
	5th cross rd		1	25.00	4.30	0.03	3.23		
	Brindhavana layout								
	1st Main rd		1	150.00	4.80	0.03	21.60		
			1	103.00	4.00	0.03	12.36		
	2nd Main rd		1	179.00	6.00	0.03	32.22		
	1st Cross rd		1	25.00	5.30	0.03	3.98		
	1stA Cross rd		1	85.00	5.00	0.03	12.75		
	Cross rd-1		1	31.00	4.60	0.03	4.28		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Cross rd-2		1	151.00	5.80	0.03	26.27		
	Scarifying Roads								
	Maruthi Nagara								
	1st Cross rd		1	110.00	6.20	0.03	20.46		
	3rd Cross rd		1	169.00	6.00	0.03	30.42		
	4th Cross rd		1	123.00	5.70	0.03	21.03		
	Ambhabhavani layout								
	Main Road		1	310.00	6.00	0.04	74.40		
							479.65	7537.66	3615461.23
21	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 6%	25.74							
	Total	454.74							
		Sqm							
	Chowdappa layout								
	1st Main rd		2.5	195.00	0.10		48.75		
	Nagaraju layout								
	Main Road		2.5	139.00	0.10		34.75		
	13th Cross rd		2	28.00	0.10		5.60		
	14th Cross rd		2	28.00	0.10		5.60		
	15th Cross rd		2	25.00	0.10		5.00		
	1st Main rd		2.5	298.00	0.10		74.50		
	Maruthi Nagara								
	1st Main rd		2.5	149.00	0.10		37.25		
	2nd Cross rd		2	57.00	0.10		11.40		
	Balaji layout								
	10th cross rd		2.0	139.00	0.10		27.80		
	2nd Cross rd(Left side)		2	48.00	0.10		9.60		
	2nd Cross rd(Right side)		2	23.00	0.10		4.60		
	3rd Cross rd(Left side)		0.5	11.00	0.10		0.55		
	3rd Cross rd(Right side)		2	36.00	0.10		7.20		
	4th cross rd		2	28.00	0.10		5.60		
	5th cross rd		2	25.00	0.10		5.00		
	Brindhavana layout								
	1st Main rd		2.5	150.00	0.10		37.50		
			2.5	103.00	0.10		25.75		
	2nd Main rd		2.5	179.00	0.10		44.75		
	1st Cross rd		2	25.00	0.10		5.00		
	1stA Cross rd		2	85.00	0.10		17.00		
	Cross rd-1		2	31.00	0.10		6.20		
	Cross rd-2		2.5	151.00	0.10		37.75		
	Scarifying Roads								
	Maruthi Nagara								
	1st Cross rd		2.5	110.00	0.10		27.50		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	3rd Cross rd		2.5	169.00	0.10		42.25		
	4th Cross rd		2.5	123.00	0.10		30.75		
	Ambhabhavani layout								
	Main Road		2.5	310.00	0.10		77.50		
							635.15	454.74	288828.11
22	KSRRB M800-35. **Supply and Installtion of Moulded Shank Raised Pavement Markers** made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.(P.No-187 I No-24.41)								
	Basic rate	337.00							
	Area Weightage 6%	20.22							
	Total	**357.22**							
		Nos							
	At 7m intervals								
	Chowdappa layout								
	1st Main rd		2	27.00			54.00		
	Nagaraju layout								
	Main Road		2	20.00			40.00		
	13th Cross rd		2	4.00			8.00		
	14th Cross rd		2	4.00			8.00		
	15th Cross rd		2	4.00			8.00		
	1st Main rd		3	42.00			126.00		
	Maruthi Nagara								
	1st Main rd		2	21.00			42.00		
	2nd Cross rd		2	8.00			16.00		
	Balaji layout								
	10th cross rd		2	19.00			38.00		
	Brindhavana layout								
	1st Main rd		2	18.00			36.00		
			2	12.00			24.00		
	2nd Main rd		2	20.00			40.00		
	1st Cross rd		2	3.00			6.00		
	1stA Cross rd		2	10.00			20.00		
	Cross rd-1		2	4.00			8.00		
	Cross rd-2		2	14.00			28.00		
	Scarifying Roads								
	Maruthi Nagara								
	1st Cross rd		2	10.00			20.00		
	3rd Cross rd		2	16.00			32.00		
	4th Cross rd		2	12.00			24.00		
	Ambhabhavani layout								
	Main Road		3	34.00			102.00		
							680.00	357.22	242909.6

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
								Total Construction Cost	25131954.08
								Towards GST 12%	3015834.49
								Towards Tender Premium 5%	1256597.70
								DPR & PMC Charges 2%	595000.00
								Sub Total	29999386.27
								Miscellaneous & Rounding Off	613.73
								Total	30000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 01-07-2020 and Data Rates

Assistant Engineer
Ward 03
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Compheresive Development of road and drains AMS Layout, Swagath layout, Venugopal layout, Akashavani layout and surrounding areas in Attur Ward no-03

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-143), 8km lead								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloding & Lead, 8KM	77.48							
	Total	**215.28**							
		Cum							
	RCC Drain								
	AMS layout								
	4th Main Rd(Right side)		2	190.00	1.10	0.90	376.20		
	4th Main Rd(left side)		2	62.00	1.00	0.90	111.60		
	1st Cross rd		2	226.00	1.10	0.90	447.48		
	2nd Cross rd(left side)		2	96.00	1.10	1.00	211.20		
	2nd Cross rd(Right side)		2	142.00	1.10	0.90	281.16		
	3rd Cross rd(Right side)		2	140.00	1.10	0.90	277.20		
	4th Cross rd(Right side)		2	169.00	1.10	0.90	334.62		
	Akashavani layout								
	4th Cross rd		2	107.00	1.10	0.90	211.86		
	3rd Cross rd		2	96.00	1.10	1.00	211.20		
	Venugopal Layout								
	3rd Cross rd		2	123.00	1.10	0.90	243.54		
	Cross rd-1		2	135.00	1.10	0.90	267.30		
	Cross rd-2		2	115.00	1.10	0.90	227.70		
	Cross rd-3		2	103.00	1.10	0.90	203.94		
				Area					
	Rain Water Harvesting pits		16	0.31		1.80	8.93		
							3413.93	**215.28**	**734950.42**
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
	Data rate	1901.00		Area					
	a) 40mm Jelly	Cum	16	0.31		0.40	1.98	1901	3,771.58
	Data rate	1901.00							
	b) 20mm Jelly	Cum	16	0.31		0.40	1.98	1901	3,771.58
	Data rate	2651.00							
	c) Coarse sand.	Cum	16	0.31		0.30	1.49	2651	3,944.69
	Data rate	2651.00							
	d) Fine Sand	Cum	16	0.31		0.20	0.99	2651	2,629.7
	Data rate	1901.00							
	e) 12.5mm chips	Cum	16	0.31		0.30	1.49	1901	2,828.6

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia.** (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	Basic rate	12121.00							
	Deduct 12% GST	1298.68							
	Total	10822.32							
		Rmt							
	0.63m dia HDPE Perforated		16	1.80			28.80		
							28.80	**10822.32**	**311682.82**
4	**Providing of Geonets** for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
	Data rate	71.03		Area					
		Sqm	16	0.31			4.96	71.03	352.31
5	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	Basic rate	5115.00							
	Area Weightage 6%	306.90							
	Total	**5421.90**							
		Cum							
	RCC Drain								
	AMS layout								
	4th Main Rd(Right side)		2	190.00	1.10	0.15	62.70		
	4th Main Rd(left side)		2	62.00	1.00	0.15	18.60		
	1st Cross rd		2	226.00	1.10	0.15	74.58		
	2nd Cross rd(left side)		2	96.00	1.10	0.15	31.68		
	2nd Cross rd(Right side)		2	142.00	1.10	0.15	46.86		
	3rd Cross rd(Right side)		2	140.00	1.10	0.15	46.20		
	4th Cross rd(Right side)		2	169.00	1.10	0.15	55.77		
	Akashavani layout								
	4th Cross rd		2	107.00	1.10	0.15	35.31		
	3rd Cross rd		2	96.00	1.10	0.15	31.68		
	Venugopal Layout								
	3rd Cross rd		2	123.00	1.10	0.15	40.59		
	Cross rd-1		2	135.00	1.10	0.15	44.55		
	Cross rd-2		2	115.00	1.10	0.15	37.95		
	Cross rd-3		2	103.00	1.10	0.15	33.99		
	For Kerb Stone								
	AMS layout								

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	4th Main Rd(Right side)		2	190.00	0.20	0.10	7.60		
	1st Cross rd		2	226.00	0.20	0.10	9.04		
	2nd Cross rd(left side)		2	96.00	0.20	0.10	3.84		
	2nd Cross rd(Right side)		2	142.00	0.20	0.10	5.68		
	3rd Cross rd(Right side)		2	140.00	0.20	0.10	5.60		
	4th Cross rd(Right side)		2	169.00	0.20	0.10	6.76		
	Akashavani layout								
	4th Cross rd		2	107.00	0.20	0.10	4.28		
	3rd Cross rd		2	96.00	0.20	0.10	3.84		
	Venugopal Layout								
	3rd Cross rd		2	123.00	0.20	0.10	4.92		
	Cross rd-1		2	135.00	0.20	0.10	5.40		
	Cross rd-2		2	115.00	0.20	0.10	4.60		
	Cross rd-3		2	103.00	0.20	0.10	4.12		
							626.14	**5421.90**	**3394868.47**
6	Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix concrete with OPC at 300 kgs**. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	6670.00							
	Area Weightage 6%	400.20							
	Total	**7070.20**							
		Cum							
	RCC Drain								
	Raft								
	AMS layout								
	4th Main Rd(Right side)		2	190.00	0.90	0.15	51.30		
	4th Main Rd(left side)		2	62.00	0.80	0.15	14.88		
	1st Cross rd		2	226.00	0.90	0.15	61.02		
	2nd Cross rd(left side)		2	96.00	0.90	0.15	25.92		
	2nd Cross rd(Right side)		2	142.00	0.90	0.15	38.34		
	3rd Cross rd(Right side)		2	140.00	0.90	0.15	37.80		
	4th Cross rd(Right side)		2	169.00	0.90	0.15	45.63		
	Akashavani layout								
	4th Cross rd		2	107.00	0.90	0.15	28.89		
	3rd Cross rd		2	96.00	0.90	0.15	25.92		
	Venugopal Layout								
	3rd Cross rd		2	123.00	0.90	0.15	33.21		
	Cross rd-1		2	135.00	0.90	0.15	36.45		
	Cross rd-2		2	115.00	0.90	0.15	31.05		
	Cross rd-3		2	103.00	0.90	0.15	27.81		
	Wall								
	AMS layout								
	4th Main Rd		4	190.00	0.15	0.60	68.40		
			4	62.00	0.15	0.60	22.32		
	1st Cross rd		4	226.00	0.15	0.60	81.36		
	2nd Cross rd(left side)		4	96.00	0.15	0.60	34.56		
	2nd Cross rd(Right side)		4	142.00	0.15	0.60	51.12		
	3rd Cross rd(Right side)		4	140.00	0.15	0.60	50.40		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	4th Cross rd(Right side)		4	169.00	0.15	0.60	60.84		
	Akashavani layout								
	4th Cross rd		4	107.00	0.15	0.60	38.52		
	3rd Cross rd		4	96.00	0.15	0.60	34.56		
	Venugopal Layout								
	3rd Cross rd		4	123.00	0.15	0.60	44.28		
	Cross rd-1		4	135.00	0.15	0.60	48.60		
	Cross rd-2		4	115.00	0.15	0.60	41.40		
	Cross rd-3		4	103.00	0.15	0.60	37.08		
							1071.66	**7070.20**	**7576850.53**
7	KSRRB - M2300-14: **Providing TMT steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	69804.00							
	Area Weightage 6%	4188.24							
	Total	**73992.24**							
		Tn							
	RCC Drain								
	For Drain 60kg/cum			1071.66	0.06		64.30		
							64.30	**73992.24**	**4757671.44**
8	Providing and Fixing **pre cast covering Slab 100mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	2337.00							
		Sqm							
	RCC Drain								
	AMS layout								
	4th Main Rd(Right side)		2	190.00	0.90		342.00		
	4th Main Rd(left side)		2	62.00	0.75		93.00		
	1st Cross rd		2	226.00	0.90		406.80		
	2nd Cross rd(left side)		2	96.00	0.90		172.80		
	2nd Cross rd(Right side)		2	142.00	0.90		255.60		
	3rd Cross rd(Right side)		2	140.00	0.90		252.00		
	4th Cross rd(Right side)		2	169.00	0.90		304.20		
	Akashavani layout								
	4th Cross rd		2	107.00	0.90		192.60		
	3rd Cross rd		2	96.00	0.90		172.80		
	Venugopal Layout								
	3rd Cross rd		2	123.00	0.90		221.40		
	Cross rd-1		2	135.00	0.90		243.00		
	Cross rd-2		2	115.00	0.90		207.00		
	Cross rd-3		2	103.00	0.90		185.40		
							3048.60		
	Available slabs						150.00		
							2898.60		
							2898.60	**2337.00**	**6774028.**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
9	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	For Drain	**Nos**							
	AMS layout								
	4th Main Rd(Right side)		2	190.00			380.00		
	1st Cross rd		2	226.00			452.00		
	2nd Cross rd(left side)		2	96.00			192.00		
	2nd Cross rd(Right side)		2	142.00			284.00		
	3rd Cross rd(Right side)		2	140.00			280.00		
	4th Cross rd(Right side)		2	169.00			338.00		
	Akashavani layout								
	4th Cross rd		2	107.00			214.00		
	3rd Cross rd		2	96.00			192.00		
	Venugopal Layout								
	3rd Cross rd		2	123.00			246.00		
	Cross rd-1		2	135.00			270.00		
	Cross rd-2		2	115.00			230.00		
	Cross rd-3		2	103.00			206.00		
							3284.00	m	
							7298.00	nos	
							200.00		
	Aailable kerbs						**7098.00**	**432.48**	**3069743.04**
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
10	**Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	For Drain	**Sqm**							
	AMS layout								
	4th Main Rd(Right side)		2	190.00		0.40	152.00		
	1st Cross rd		2	226.00		0.40	180.80		
	2nd Cross rd(left side)		2	96.00		0.40	76.80		
	2nd Cross rd(Right side)		2	142.00		0.40	113.60		
	3rd Cross rd(Right side)		2	140.00		0.40	112.00		
	4th Cross rd(Right side)		2	169.00		0.40	135.20		
	Akashavani layout								
	4th Cross rd		2	107.00		0.40	85.60		
	3rd Cross rd		2	96.00		0.40	76.80		
	Venugopal Layout								
	3rd Cross rd		2	123.00		0.40	98.40		
	Cross rd-1		2	135.00		0.40	108.00		
	Cross rd-2		2	115.00		0.40	92.00		
	Cross rd-3		2	103.00		0.40	82.40		
							1313.60	**84.80**	**111393.**
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Total Rate Rs. =	84.80							
11	KSRRB 300-46. **Scarifying by mechanical means** stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.(P.No-146,I No-19.52)								
	Basic rate	39.00							
	Area Weightage 6%	2.34							
	Total	**41.34**							
		Sqm							
	AMS layout								
	Scarifying Roads								
	4th Main Rd(Right side)		1	220.00	6.00		1320.00		
	4th Main Rd(left side)		1	65.00	5.70		370.50		
	Cross road		1	58.00	6.50		377.00		
							2067.50	**41.34**	**85,470.45**
12	**Construction of granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. (I No-20.5,P No-153)								
	Basic rate	1882.00							
	Area Weightage 6%	112.92							
	Total	**1994.92**							
		Cum							
	AMS layout								
	Scarifying Roads								
	4th Main Rd(Right side)		2	220.00	1.20	0.15	79.20		
	4th Main Rd(left side)		2	65.00	1.10	0.15	21.45		
	Cross road		2	58.00	1.10	0.15	19.14		
							119.79	**1994.92**	**238971.47**
13	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	Area Weightage 6%	113.28							
	Total	**2001.28**							
		Cum							
	AMS layout								
	Scarifying Roads								
	4th Main Rd(Right side)		1	220.00	6.00	0.23	303.60		
	4th Main Rd(left side)		1	65.00	5.70	0.23	85.22		
	Cross road		1	58.00	6.50	0.23	86.71		
							475.53	**2001.28**	**951658**
14	KSRRB M500-6. Providing and **applying primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6), issue rate dated 01-07-2020								
	Basic rate	28.00							
	Area Weightage 6%	1.68							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Total	29.68							
	AMS layout								
	Scarifying Roads								
	4th Main Rd(Right side)		1	220.00	6.00		1320.00		
	4th Main Rd(left side)		1	65.00	5.70		370.50		
	Cross road		1	58.00	6.50		377.00		
							2067.50	29.68	61,363.40
15	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7) issue rate dated 01-07-2020								
	Basic rate	12.00							
	Area Weightage 6%	0.72							
	Total	12.72							
		Sqm							
	AMS layout								
	Scarifying Roads								
	4th Main Rd(Right side)		1	220.00	6.00		1320.00		
	4th Main Rd(left side)		1	65.00	5.70		370.50		
	Cross road		1	58.00	6.50		377.00		
							2067.50	12.72	26,298.60
16	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6), issue rate dated 01-07-2020								
	Basic rate	6045.00							
	Area Weightage 6%	362.70							
	Total	6407.70							
		Cum							
	AMS layout								
	Scarifying Roads								
	4th Main Rd(Right side)		1	220.00	6.00	0.05	66.00		
	4th Main Rd(left side)		1	65.00	5.70	0.05	18.53		
	Cross road		1	58.00	6.50	0.05	18.85		
							103.38	6407.70	662395.9
17	Providing and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12), issue rate dated 01-07-2020								
	Basic rate	7111.00							
	Area Weightage 6%	426.66							
	Total	7537.66							

Sl No	Description of items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
		Cum							
	AMS layout								
	Scarifying Roads								
	4th Main Rd(Right side)		1	220.00	6.00	0.03	39.60		
	4th Main Rd(left side)		1	65.00	5.70	0.03	11.12		
	Cross road		1	58.00	6.50	0.03	11.31		
							62.03	7537.66	467523.36
18	KSRRB M800-13.**Road Marking** with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Basic rate	429.00							
	Area Weightage 6%	25.74							
	Total	454.74							
		Sqm							
	AMS layout								
	4th Main Rd(Right side)		2.5	220.00	0.10		55.00		
	4th Main Rd(left side)		2	65.00	0.10		13.00		
	Cross road		2	58.00	0.10		11.60		
							79.60	454.74	36,197.30
19	KSRRB M800-35. **Supply and Installtion of Moulded Shank Raised Pavement Markers** made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41)								
	Basic rate	337.00							
	Area Weightage 6%	20.22							
	Total	357.22							
		Nos							
	At 7m intervals								
	AMS layout								
	4th Main Rd(Right side)		3.0	31.00			93.00		
	4th Main Rd(left side)		2	9.00			18.00		
							111.00	357.22	39,65
								Total Construction Cost	2931801
								Towards GST 12%	351816
								Towards Tender Premium 5%	146590

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
								DPR & PMC Charges 2%	697000.0
								Sub Total	34999080.4
								Miscellaneous & Rounding Off	919.5
								Total	35000000.0

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 01-07-2020 and Data Rates

Assistant Engineer
Ward 03
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore